KAMINSKIY, D.L.; KAGANSKIY, M.G.

Sectoral double-focusing beta-spectrometer. Prib.i takh.eksp.
no.1:32-36 Ja-F '59. (MIRA 12:4)

1. Fiziko-tekhnicheskiy institut AN SSŚR. (Spectrometer)

21(8) AUTHORS:

Kaminskiy, D. L., Kaganskiy, M. G.

sov/56-35-4-14/58

TITLE:

The Positron Spectrum of Eu 152,154 (Fozitronny spektr

Eu 152, 154)

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1993,

Vol 35, Nr 4, pp 926 - 931 (USOR)

ABSTRACT:

The Eu 152-decay (half-life 13 years) has already been investigated in a number of papers (e.g. Refs 1-4); the positron emission of europium was investigated with a magnetic lens spectrometer (Ref 5). For the investigations described the authors used a magnetic spectrometer with double beam focusing, which was specially constructed for investigation of the soft politron spectrum (Ref 6). The scheme of this device is illustrated by figure 1 and is described in detail in the second paragraph. As source, a 54 thick Alfoil (4.20 mm²), coated with europium of natural composition (density < 2 mg/cm²) was used. Gauging

Card 1/3

of the spectrometer was carried out according to

The Positron Spectrum of Eu 152,154

SOV/95-35-4-14/52

the lines of the Eu 152,154 conversion electrons, the energies of which are already accurately known (Ref 1); it was tested on the Cu⁶⁴, Zn⁶⁵-positron spectrum and on the ThC" internal conversion positron spectrum (Fig 3). The Eu152,154-positron spectrum was measured in the interval of 1000 (3500 [or .cm]. The curve shows a relatively broad makimum (386 keV) which has a solient point at H > 2400 and dealines sharply. The spectrum neinly consists of positrons due to the pair conversion of 1410 keV y-quanta and of a β^+ -spectrum with an end point energy of E = 700+ 20 keV. The spectrum is identified as that due to the positron decay of Eu152 ($T_{1/2}$ = 13a), the intensity of the positron decay was determined up to $I = (1.2 \pm 0.2).10^{-4}$ positrons per decay. Figure 5 shows the curve of electron conversion on the K-shall (E,= 1410 keV), the abscissa of the diagram is the number of pulses per second (Geiger counter); ordinate Im-current (appetrometer); figure 6 shows a di gran of the Fermi-B+-spectrum. For position des , log (tf) is given. The complete decay spectrum

Card 2/3

The Positron Spectrum of Eu¹⁵², 154

Eu¹⁵² → Sm¹⁵², Cu¹⁵² is shown by figure 7. The authors thank L.A. Cliv for value to Alexander.

There are 7 flowers, 1 table, and 1' references, 5 of which are Soviet.

ACSOCIATION: Leningradably finite-tehnicheship isotites Alexanders of the Academy of Sciences USCR)

SUIMITTED: May 26, 1953

21(8),24(7)

AUTHORS:

Antonova, S. F., Vasilenko, S. S.,

sov/56-37-3-15/62

Kaganskiy, M. G., Kaminskiy, D. L.

TITLE:

The Positron Spectrum of Eu 152 and Eu 152m

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959,

Vol 37, Nr 3(9), pp 667-671 (USSR)

ABSTRACT:

In connection with the well-known considerable variation of the shape of the nucleus in the case of a change of the neutron number in the nucleus from N = 88 to N = 90, an investigation of the radioactive Eu 152 and its isomer Eu 152m in the decay of which $_{62}S_{90}^{m152}$ and $_{64}G_{88}^{d152}$ are formed, is of interest.

The present paper deals with the experimental investigation of the positron spectrum of these isotopes. The experimental order is schematically represented by figure 1, and is discussed in the introduction. For the purpose of measuring the spectrum, a magnetic sector spectrometer with double focusing and low background was used. Results are shown by figure 3. The curve has two salient points, one at $H_Q = 1920$ G.cm and

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one at 2460 G.om, which are caused by the internal pair

The Positron Spectrum of Eu152 and Eu152m

sov/56-37-3-13/62

conversion of y-quanta having the energies 1280 and 1409 kev. Also partial β^+ -spectra are plotted (β^+ -groups (713+3) ker and (470 ± 10) kev); the intensities are 1.4-10⁻⁴ and 5.10⁻⁵ β ⁺ per decay. Figure 4 shows the decay scheme. The β^+ -decay of Eu¹⁵² takes place to the first (2^+) and the second (4^+) excited states of Sm^{152} ; the half life of β^+ -radiation is given as amounting to about 10 a. The formation of Sm 152 in the ground. and first excited state occurs in the positron decay of the Eu 152m isomer. The end point energies of the partial spectra are 890 and 770 kev (intensities: $6 \cdot 10^{-5}$ and $2 \cdot 10^{-5}$ per decay). The excitation energy of the Eu¹⁵² isomer determined from the difference between the end point energies is given as amounting to 55+6 kev. From the internal pair conversion spectra the conversion coefficients T and the multipolarities of a number of y-transitions are determined. Figure 5 shows the dependence of the pair conversion coefficient on the energy and the

Card 2/3

The Positron Spectrum of Eu^{152} and $\mathrm{Eu}^{152\mathrm{m}}$

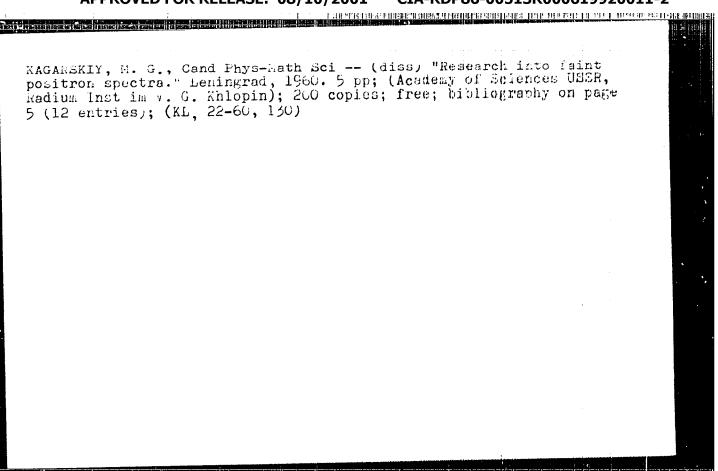
SOV/56-37-3-13/62

multipolarity of the transition. The value $\Gamma = (1.6\pm0.2).10^{-4}$ corresponds to a E1-transition, the value $\Gamma = (0.8\pm0.2).10^{-4}$ corresponds to a transition with 1280 kev (E1). Further details are discussed. Figure 6 shows the positron spectrum of Eu^{152m}, which has a half-life of only 9.2 h. The value $\Gamma = (0.6\pm0.3)\cdot10^{-4}$ corresponds to a E2-transition (1386 kev). In a table the results obtained by the authors are compared with those obtained by Alburger et al. (Ref 3). Agreement is good. The authors finally thank Professor L.A. Sliv for his interest. There are 7 figures, 1 table, and 8 references, 4 of which are Soviet.

SUBMITTED:

April 18, 1959

Card 3/3



ANTONOVA, S.F.; VASILENKO, S.S.; KAGANSKIY, M.G.; KAMINSKIY, D.L.

Positron decay of Ir¹⁹². Zhur.eksp.i teor.fiz. 38 no.2:379-383 F
160. (MIRA 14:5)

1. Leningradskiy fiziko-tekhnicheskiy institut Akademii nauk SSSR.

(Positrons) (Iridius-Decay)

ANTONOVA, S.F.; VASILBNKO, S.S.; KAGANSKIY, M.G.; KAMINSKIY, D.L.

Investigating the gamma spectrum of Cel⁴⁰. Zhur.eksp.1
teor.fiz. 38 no.3:765-767 Mr '60. (MIRA 13:7)

1. Leningradskiy fiziko-tekhnicheskiy institut Akademii
nauk SSSR.
(Gamma rays) (Cerium—Isotopes)

91,39h

s/056/60/053/004/012/048 B004/3070

24.6720 AUTHORS:

Vasilenko, S. S., Kaganskiy, M. G., Kaminskiy, D. L.,

Koksharova, S. F.

TITLE:

The Problem of the Formation of Monoenergetic Positrons

in the Decay of Eu152/9

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1960, PERIODICAL:

Vol. 39, No. 4(10), pp. 970-972

TEXT: According to the calculations of Professor L. A. Sliv (Ref. 1), an electron - positron pair may be formed when an excited nucleus in whose electron shell an electron is missing makes a transition from a level with E > 2 mc² to the normal state. The electron occupies the rever with E > 2 mc = to the hormal state. All positrons vacancy in the shell, only the positron is emitted. All positrons produced in this process must have the same energy $E_{\rm m} = E_{\rm y} - 2 {\rm mc}^2 + E_{\rm sh}$

(1) $(E_{\gamma} = \text{transition energy}, E_{\text{sh}} = \text{binding energy of the electron in the}$ shell). The probability of the formation of monoenergetic positrons is

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Card 1/3

VASILENKO, S.S.; KACANSKIY, M.G.; KAMINSKIY, D.L.

Magnetic spectrometer for investigating faint positron spectra.

Mira 14:10)

Prib.i tekh.eksp. 6 no.5:42-44 S-0 '61.

1. Fiziko-tekhnicheskiy institut AN SSSR.

(Spectrometer)

りえる場合

3/048/61/025/001/011/031 8029/8060

24.6510 AUTHORS:

Vasilenko, S. S., Kagarakiy, M. G., Kaminskiy, D. L., and

Koksharova, S. F.

TITLE:

Internal conversion with pair production in the Tal82 decay

PERIODICAL:

Tzvestiya Akademit nauk SSSR. Seriya fizicheskaya, v. 25,

no. 1, 1961. 61-67

TEXT: A study has been made of transitions with an energy of over 2mc² using data of internal conversion with pair formation. As may be seen from Fig. 1, transitions with such operations take place through the energy gap. Transitions between the rotational cands with K = 2° and K = 0° are of particular interest (see Fig. 1). Experimental data do not contradict an emission of the type E₂, E₁ + M² (prodominantly E₁), and even mixture E₁ + M² + E₂ is admissible. The modificiality was determined by the method devised by S. F. Antonova = tol. (Ref. 8). In some cases, also mixed transitions can be analyzed by this method. In FB and HB transitions emissions of the E₁, M₂, and E₃ are possible, in agreement

Card 1/18

92h9

Internal conversion with pair production ...

\$/048/61/025/001/011/031 B029/B060

with the selection rules for spin and parity. In this case, the composition of radiation cannot be determined unequivocally from the intensity values of gamma transitions or from the conversion line data. The composition of radiation can be, however, determined from the data of internal conversion with pair formation. Three formulas are written down for this purpose. The authors determined the spectrum of the positrons of the pair conversion and the spectrum of the conversion electrons. The data of the relative intensity of gamma rays were taken from the paper by N. Voynova, B. S. Dzhelepov, N. N. Zhukovskiy (Ref. 9). The internal conversion with pair formation is very weak in the Ta182 decay. Fig. 2 illustrates the spectrum of the positrons. If E. denotes the energy corresponding to half the drop of the positron spectrum curves, $E_{\gamma} = E_{+} + 2mc^{2}$. The energies of gamma transitions established in this manner are listed in a Table. The intensity of the positron spectra of individual gamma transitions must be known in order to be able to determine the multipolarity of transitions. In case of a low transition energy the distribution of the positrons is equally large for the transitions of the El, E2, and M1 types. As an example, Fig. 2 shows the

Card 2/6

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Internal conversion with pair production ...

S/048/61/025/001/011/031 B029/B060

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partial spectra caused by transitions with 1122, 1188, 1222, and 1231-kev energies. Fig. 3 shows the spectra of conversion electrons of Ta182. The relative intensities of the K conversion lines and the corresponding partial spectra of positrons are listed in a Table. The lines of conversion electron's K1256 and (M+N)1189 are not separated. The multipolarities found for the transitions are as follows: 1122 kev: the value of $(\Gamma/a_k)_{exp}$ corresponds to a radiation of the E2 type. The M1 admixture must be small. The 1188-kev transition is a mixed one. An E1 radiation must take part in the FB transition. 75% E1 + (2518)% M2 is found. The 1222-kev transition has, according to data available in the literature, an E2 multipolarity. Furthermore: 1231 kev - E2 with slight M1 admixture. 1256 kev - probably E1. 1275 kev: according to experimental data available, 80% E1 + 20% M2 fits best. The multipolarity of the 1290-kev transition can be of the M2, E3, or of an even higher type. The probability of E1 transitions from the F level is considerably smaller than the probability of the single-proton transition according to Weistkopf. The portion of E3 radiation in the FB transition amounts to no

Card 3/19

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Internal conversion with pair production :::

S/048/61/025/001/011/031 B029/B060

more than 20%. Therefore, the probability of the E3 transition cannot be more than four times as high as the probability of the single-particle transition. L. A. Sliv and I. M. Band are mentioned. The article under consideration is the reproduction of a lecture delivered at the 10th All-Union Conference on Nuclear Spectroscopy, which took place in Moscow from January 19 to 27, 1960. There are 3 figures, 1 table, and 14 references: 7 Soviet-bloc.

ASSOCIATION: Fiziko-tekhnicheskiy institut Akademif nauk SSSR (Institute of Physics and Technology, Academy of Sciences USSR)

Legend to the Table: Transition multipolarities in w¹⁸². 1) transition energy, kev; 2) results yielded by the work under consideration; 3) data by Backstrom, Ref. 12; 4) intensity of the K line; 5) intensity of the positron spectrum; 6) calculated; 7) experimental; 8) type of emission.

Card 4/8

3/048/62/026/008/015/028 B104/B102

Badalov, N. B., Vasilenko, S. S., Kaganskiy, M. G., and .

Kaminskiy, D. L. AUTHORS:

Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26, 110* positron spectrum minLE:

PERICUICAL:

The positron spectrum was studied using a double-focusing B-spectrometer which gave a resolving power of 1.8% at a solid angle of 1.2% of 4%. meter which gave a resulving power of 1.0% as a solite angle of from metallic The Ag 110° source was supplied by thermal-neutron irradiation from metallic dilver of natural isotopic composition. Sources of O.6 - and ~6 mg/cm² thicknesses were used. The spectrum mainly consists of positrons produced in internal conversions giving V constant mainly consists of positrons produced in internal conversions giving V constant mainly conversions of 1x00 1x00 in internal conversions giving y -quantum pairs with energies of 1380, 1480, in internal conversions giving y -quantum pairs with energies of 1989, 1981 1990, and 1960 kev. In the hard part of the spectrum, it was possible to generate out positrons derived from transitions at 1780 and 1930 kev. Transitions with energies of 1650 and 1880 key are supposed. The multiplicities of the most important transitions were determined from the ratio of the pair conversion coefficient to the electron conversion coefficient Card 1/7 2

 $\Lambda_{\mathcal{E}}^{110*}$ positron spectrum

3/048/62/026/008/015/028 B104/B102

(Table 2). It is proved that the 1597-kev transition detected by the authors occurs to the ground state. There are 2 figures and 2 tables.

ABSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Loffe Akademii nauk SUSR (Physicotechnical Institute imeni A. F. Loffe of the Academy of Sciences USSR)

Table 2.

	10							
E_{γ}	Ei		· E2		E3	ΜI	ME	
keV	Z = 0	Z = 84	' Z = 0	Z = 84		Z == 0		
1380	1,95	0,94	0,52	0,34	0,19	0,24	0,07	
1489	2,64	1,46	0,82	.0,60	0,27	. 0,42	0,10	
1500	2,80	1,66	0,90	g,68	222	0,48	===	
1560	3,2	1,92	1,12	ð,80	0,42	0,60	0,22	
1780	4.80	3,40	2,00	1,52	0,82	1,08	0,60	
1930	5,88	4,46	2,72	2,00	1,20	1,56	0,80	

Card 2/10

E/048/65/C27/O12/O15/O23 1104/B1BD

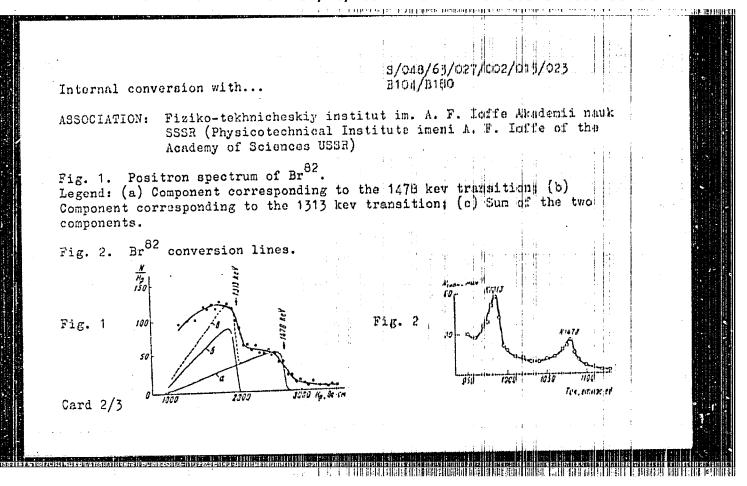
AUTHORS: Badalov, N. B., Vasilenko, S. S., Kaganskiy, M. G., and Kaminskiy, D. L.

TITLE: Internal conversion with pair production in the Br 2 decay

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheshaya, v. 27, no. 2, 1963, 258 - 259

TEXT: The positron spectrum produced by internal conversion with pair production in the decay of Br 2 was measured with a spectroms to r having an aperture ratio of 1.2% of 4J and a resolution of 1.2%. The Br 2 source was obtained by irradiating MgBr 2 powder with thermal neutrons, after which a thin layer (5\(\mu\)) was deposited on an Al foil. Results ane given in Figs. 1 and 2 and in the Table. In the small energy runge the two adaptonents (Fig. 1) differ considerably from experimental data. This is due to the relative thick source (2-3 mg/cm²). There are 2 figures and 1 table.

Card 1/3



Internal convers	ion with	\$/048 B104/	/63/027/0 918 0	ozy ur:	3/423		
Table. Comparis	on of the experimen	tal and calcula	ted value	s of T	'/a.K.		
Legend: (1) Inte	nsities; (2) $(\Gamma/c_{\overline{K}})$	calc; (3) (r/ck) exp (4)	inal t	iyole d	rder.	
	Tabl	e					
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Card 3/3						4	
varu yy					•		

BADALOV, N.B.; VASILENKO, S.S.; KAGANSKIY, M.G.; KAMINSKIY, D.L.

Internal conversion with pair formation in As⁷⁶. Izv.AN SSSR.

Ser.f1z. 27 no.2:260-262 F '63.

1. Fiziko-tekhnicheskiy institut AN SSSR.

(Internal conversion (Nuclear physics))

(Arsenic isotopes-Decay)

3/056/63/044/001/006/067 B108/B180

Badalov, N. B., Vasilenko, S. S., Kaganskiy, M. G., AUTHORS:

Kaminskiy, D. L., Nikitin, M. K.

Positron decay of Re 182

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44, TITLE:

no. 1, 1963, 35 - 40

TEXT: Two rhenium isomers with the half lives of 13 and 64 hr were obtained in the reaction $Ta^{181}(\alpha,3n)Re^{182}$ after chemical processing (purification) of the reaction product. These two isomers show positron emission during their Re = W182 decay, with intensities of ~3.10⁻³ and 5.10⁻⁶ positrons per decay event, for the short and long-lived isomer, respective. ly. Analysis of the \$-spectrum of the short-lived isomer by means of a Fermi graph showed two branches of \$-decay with threshold energies of 550 ± 20 kev and 1740 ± 20 kev and the relative intensities of $0.6 \cdot 10^{-3}$ and 1.8.10-3 positrons per decay event. The total energy of the Re 182 -> W 182 transition is 2860 ± 20 kev. The positrons are due mainly to internal Card 1/2

Positron decay of Re 182

S/056/63/044/001/006/067 B108/B180

conversion with pair production during the electromagnetic transitions accompanying the electron capture in Re 182 . The low β^+ -decay intensity of the long-lived isomer is attributed to K-forbiddenness. There are 5 figures.

ASSOCIATION:

Fiziko-tekhnicheskiy institut im. A. F. Ioffe Akademii nauk SSSR (Physicotechnical Institute imeni A. F. Ioffe of the Academy of Sciences USSR)

SUBMITTED:

June 29, 1962

Card 2/2

ACCESSION NR: AP4040309

8/0057/64/034/006/1050/1056

AUTHOR: Kaganskiy, M.G.; Kaminskiy, D.L.; Klyucharev, A.H.

TITLE: Coherent oscillations in a high voltage Penning discharge

SOURCE: Zhurnal tekhnicheskoy fiziki, v.34, no.6, 1964, 1050-1056

TOPIC TAGS: plasma, discharge oscillations, plasma oscillations, argon plasma, Penning discharge, external magnetic field

ABSTRACT: Large amplitude coherent oscillations of frequency from 1 to 100 kilocy-cles/sec were observed in a high voltage Penning discharge in argon in a longitudir nal magnetic field. The discharge took place between cold cathodes separated by 5 cm and a cylindrical anode of diameter 0.6, 1 or 2 cm. The prossure was varied from 0.0005 to 0.004 mm Hg, the anode potential from 1 to 5 kV, and the magnetic field from 0 to 3500 Oe. The ions passing through a small opening in one cathode were analyzed electrostatically. Nearly sinusoidal coherent oscillations were observed in both the cathode current and the anode potential, but only under such conditions that the discharge current increased with increasing anode potential. Grounding the anode through a 150 microfarad capacitor did not influence the cathode current os-

Cord 1/3

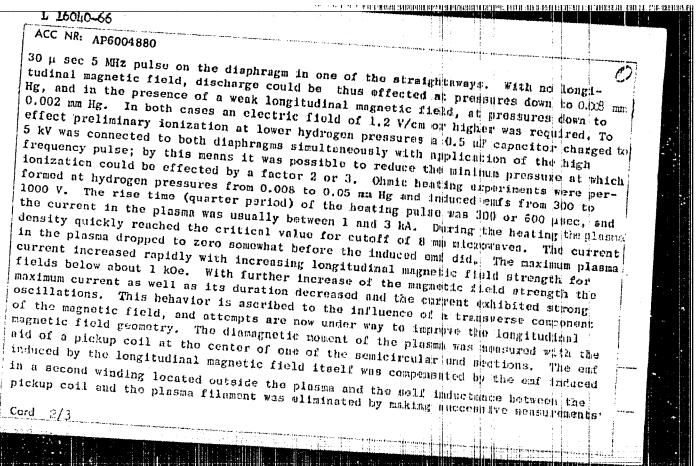
ACCESSION NR: AP4040309 served by other authors in F these differ in nature from made to interpret the result	FUOSA GIBCODOCC COLO	-Alem instabl	11tv 1n 8	longitu-	•
made to interpret the result dinal electric field discuss	, b m m stademan (Vit	ol.Fus.1,286, that further	1951), but invostigat	a number	
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ACC NR. APOULTTO AUTHOR: Golant, V. Ye.; Kaganskiy, M.G.; Ovsyannikov, V.A.; Piliya, A.D. AUTHOR: Golant, V. Ye.; Kaganskiy, M.G.; Ovsyannikov, V.A.; Piliya, A.D.	
ORG. Physico-technical Institute is. A.F. Ioffe, An Sont	
teknnicheskry russes 21, 74, 515	
TITLE: A toroidal machine for adiabatic compression of plasma	
SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 12, 1965, 2176-2184	
TOPIC TAGS: plasma heating, plasma compression, plasma penditurning the distriction of th	
nonhomogeneous magnetic field, ABSTRACT: There is briefly described a new machine, the "ruman", for ohmic healting and subsequent adiabatic compression of plasma. The chamber is in the form of a and subsequent adiabatic compression of plasma. The chamber is in the form of a and subsequent adiabatic compression of plasma. The chamber is in the form of a racetrack with 60 cm long straightaways and 20 cm radius semicircular ends. In order racetrack with 60 cm long straightaways and 20 cm radius semicircular and high	
racetrack with over requirements for stable, efficient committee field (half-	
period 3 millisec) was made strong (up to 50 kOe) in the simmler in the semi-	
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circular end regions is 2 cm, consisted to permit penetration of the magnetic knew there being liner, which is slotted to permit penetration of the magnetic glass, there being the chamber in the straightaways is 8.5 cm and the walls are of glass, there being the chamber in the straightaways is 8.5 cm and the walls are of glass, there being the chamber in the straightaways is 8.5 cm and the walls are of glass, there being the chamber in the straightaways is 8.5 cm and the walls are of glass, there being the chamber in the straightaways is 8.5 cm and the walls are of glass, there being the chamber in the straightaways is 8.5 cm and the walls are of glass.	
no metallic liners that might reduce the UDC: 533.9	
Card 1/2	

NEW TOTAL

。 1985年 - 198 L 13450-66 ACC NR: AP6002440 field. The quasistationary magnetic field is produced by discharge of two 6 pps kv capacitors through suitable windings. Preliminary ionization is effected by a 30 μ sec rf pulse. Ohmic heating is accomplished with the aid of a 0,2 V sec demountable transformer powered by a 25 μ P 10 kV capacitor bank and having a gap in the core of not more than 0.5 mm. Duration of ohmic heating is ordinarily 300 µ sec. The magnetic field in the straightaways can be raised from a few kOe or less to as high as 30 kOe in from 20 to 240 μ sec by discharge of an adjustable capacitor bank (possible values are 600 μ F and 20 kV) through special windings. These windlings and similar to those described by Bartels (Naturwissenschaften, 50, 396, 1963); they ward made in two layers of four turns each with the turns in the two layers inclined oppositely to the axis of the chamber in order to minimize the transverse component of the field. The machine was designed to compress 15 liters of plasma to a volume of | liter. The inhomogeneous quasistationary magnetic field was mapped out by means of probes with the windings excited at 400 Hz; the results are presented graphically and discussed briefly. In an appendix there is a brief theoretical discussion of the stability of the plasma. The authors thank A.I. Anisimov, N.I. Vinogradov, and V.N. Dyn'kov (deceased), who participated in the design of the machine, and S.I. Kosenko, V.A. Pautov, P. S. Sergivenko, and M.I. Kuleshov, who participated in its construction. Orig. art. bus: 9 formulas and SUB CODE: 20 SUBM DATE: 20May65 ORIG. REF. :005 OTH REF: 005

L 16040-66 EWT(1)/ETC(f)/EPE(n)-2/EWG(n)IJP(c) AN ACC NR: AP6004880 SOURCE CODE: UR/0057/#0/03/5/001/0067/0079 AUTHOR: Golant, V. Ye.; Kaganskiy, M.G.; Ovayannikov, V. A. ORG: Physicotechnical Institute in A.F. Ioffe, AH SSSR, Linkingrah (Finikotekhnicheskiy institut AN SSSR) 21,44,55 TITLE: Investigation of plasms in the "Tuman" installation SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 1, 1966, #7-79 TOPIC TAGS: hydrogen plasma, heated plasma, confined plasma, plasma compression, plasma confinement, plasma density, plasma heating, plasma densaty, plasma temperature, plasma research ABSTRACT: The first experiments with the "Tuman" installation are reported. machine which is of race-track construction, was recently discribed by the suthors and A.D. Diliya (ZhTF, 35, No.12, 1965). In the semicircular end sections the diameter of the chamber is small and the longitudinal magnetic field strength is made high to facilitate ohmic heating; in the straightaways the dismeter of the chamber is larger and the initial longitudinal magnetic field strength is made low, to facilitate adiabatic magnetic compression of the plasma. The present experiments were undertaken mainly to explore the conditions of electrodeless discharge and plant heating. The machine was pumped down to 10-6 mm Hg before the experiment; and was cleaned with several dozen preliminary discharges, but it was not baked out. The experiments were performed with a steady flow of hydrogen. Preliminary ionillation was effected with a Card 1/3 UDC: 533.9



I 16040-66 ACC NR AP6004880 with the current in opposite directions. It is not clear how the signal due to paramagnetism was evaluated or eliminated. From the diamognetic moment of the plasm its density and temperature were estimated. At hydrogen pressures of 0.02 to 0.002 mm Hg ionizations of 50 to 90% were achieved with plasma temperatures of 4 to 8 eV. Al: 0.01 mm Hg hydrogen pressure and magnetic fields from 1 to 1 kOe, a plasma density of 5 x 1014 cm⁻³ was reached. Energy balance considerations immicated that the plasma was confined for approximately 20 µsec. Preliminary magnetic compression experiments were performed, with the field increasing to a maximum of from 4,5 to 48 kOa in from 40 to 30 µsec. High speed photographs showed that the diameter of the plasma filament was decreased by several times. The authors thank A.B. Berezin for performing spectroscopic measurements, S. G. Kalmykov for performing the microwave measurements, V. L. Pautov for active participation in the work, and the staff of the laboratory for assistance and valuable advice. Orig. art. has: 4 formulas, 8 figures, and 2 tables. SUB CODE: [:15] 20/ SUBM DATE: 21May65/ ORIG. REF 004 / ATD PRESS: 4/202 Card

IVANOV, N.I., kand.tekhn.nauk; SOCHINSKIY, V.P., insh.; KAGANSKIY, M.Ye., inzh.; ZYKOV, V.M., inzh.

Efficient methods of developing new levels in the operative Donets Basin mines mining flat seams. Sbor.DonUGI no.21:3-35 '61. (MIRA 15:6)

(Donets Basin--Coal mimes and mining)

IVANOV, N.I., kand. tekhn. nauk; KAGANSKIY, M.Ye., insh.; DZYUBA, Yu.S., insh.

Effect of concentrating production on the operating indices of mines. Sbor. DonUGI no.29:67-80 '63. (MIRA 16:10)

(Coal manes and mining-Management)

IVANOV, N.I., kand.tekhn.nauk; ZYKOV, V.M., inzh.; KAGANSKIY, M.Ye., inzh.

Some cost indices for operative mines and mines under reorganization. Sbor.DonUGI no.21:89-99 '61. (MIRA 15:6) (Donets Basin--Coal mines and mining--Costs)

\$/117/60/000/012/020/022 A004/A001

AUTHOR:

Kaganskiy, S.

TITLE:

A Glue for the Joining of Shell Half-Molds

PERIODICAL: Mashinostroitel', 1960, No. 12, p. 41

TEXT: The author reports on a new glue of his own composition which is being used for the joining of shell half-molds. Formerly, at the Kiyevskiy mototsikletnyy zavod (Kiyev Motorcycle Plant) the half molds for the casting of the ribbed cylinders of the motorcycle engines were joined with the aid of steel brakets, which, apart from being expensive, did not ensure a tight joint. The new glue, which can be stored for a protracted period is composed of the M\$\phi\$-17 (MF-17) resin (50-60%), powdered quartz-marshalite (40-50%) and ammonium chloride (1-1.5%). The powdered quartz is roasted at temperatures in the range of 850-900°C for 3-3.5 hours. After cooling down, it is sifted through a silk screen. Then the marshalite is mixed with the MF-17 resin while the mixture is stirred continuously. To accelerate the solidification process of the glue seam, a catalyzer is added, i. e. ammonium chloride powder, which is also carefully mixed with the glue. The durability of the glue with the catalyzer amounts to 1.5 hours, while the glue

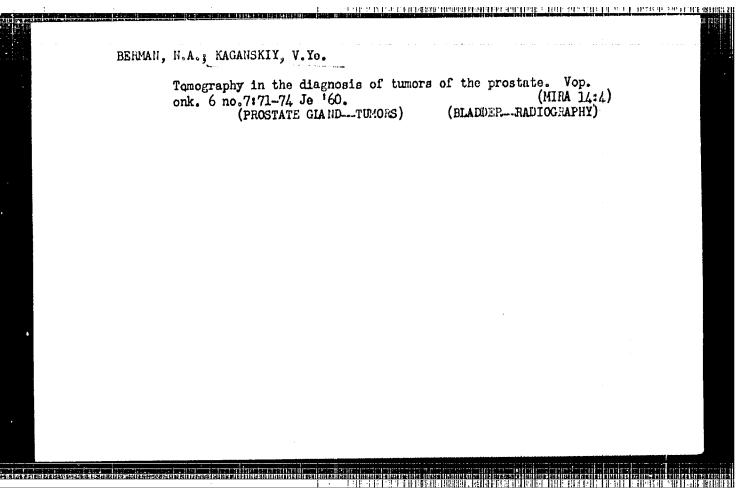
Card 1/2

KAGANSKIY, V.Ye. (Leningrad, B. Pushkarskaya, d.63, kw. 6)

Case of diaphragmatic cyst. Vop.onk. 5 no.31368-370 *59.

1. Iz Pargolovskoy bol'nitsy Vyborgskogo rayona Leningrada (glavn. vrach. - A.K. Basenko) i Khirurgicheskoy kliniki dlya usovorshenet-vovaniya vrachey (nach. - deystvitel'nyy chlen AMN prof. P.A. Kupri-yanov) Voyenno-meditsinskoy ordena Lenina akademii S.M. Kirova.

(DIAPHRAGM, cysts,
case reports (Rus))



Kiganskiy, V.Ye. [deceased] (Leningrad, ul. Skorechoupre, d. 3, kv. 44)

Lipoma of the bone; a case report. Vop. onk. 9 no.12:97.99 '63.

(MIRA 17:12)

1. Iz rentgenologicheskogo otdeleniya (zav. - prof. L.M.Gol'dahteyn [deceased] Instituta onkologii AMN SSSR (direktor - deystvitel'nyy chlen AMN SSSR prof. A.I.Sarebrov).

KAGANSKIY, Ye.K.

Clinical and radiographic study of the functional and morphological peculiarities of the gastrointestinal tract in the early stages of pulmonary tuberculosis. Trudy LSGMI 46:276-286 *59. (MIRA 13:11)

1.Klinika legochnogo tuberkuleza Leningradskogo sanitarnogigiyenicheskogo meditsinskogo instituta (zav. kafedroy - prof. Ye.Ye.Klionskiy) i Kafedra rentgenologii i radiologii (zav. kafedroy - prof. B.M. Shtern). (TUBERCULOSIS) (DIGESTIVE ORGANS-RADIOGRAPHY)

KAGANSKIY, Ye.K.

Recognition of a cavity in pulmonary tuberculosis. Trudy LSGMI 46:270-275 '59. (MIRA 13:11)

1. Klinika legochnogo tuberkuleza Leningradskogo sanitarnogigiyenicheskogo meditsinskogo instituta (zav. klinikoy -- prof.
Ye.Ye. Klionskiy).

(TUBERCULOSIS)

KAGANSKIY, Ye.K.

Clinical and radioscopic study of functional and morphological peculiarties of the gastrointestinal tract in early stages of pulmonary tuberculosis. Trudy LSCMI 53:143-151 '59.

(MIRA 13:10

l. Kafedra rentgenologii s meditsinskoy radiologiyey Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav. kafedroy - prof. B.M. Shtern) i Klinika tuberkuleza Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav. klinikoy prof. Ye.Ye. Klionskiy).

(TUBERCULOSIS) (DIGESTIVE ORGANS-RADIOGRAPHY)

KAGADTJOVA, R. 1.

A CONTROL OF THE CONTROL OF THE WALL OF THE STREET OF THE

"Effect of Surrounding Conditions on the Development of the Common Field Nouse." Cand Biol Sci, All-Union Sci Res Inst of Plant Protection, VASKhNIL, Leningrad, 1953. (RZhBiol, No 1, Sep 54)

SO: Sum 432, 29 Mar 55

8/081/62/000/022/009/088 B177/B186

THE COURSE OF THE PROPERTY OF

AUTHORS:

(3) Kagarlitekaya, N. V., (4) Klimov, V. V., Kagarlitekaya, N. V., Shcherbov, D. P.

TITLE:

Infra-red spectrometry of inorganic substances.

- (3) The preparation of solid specimens for quantitative determination.
- (4) Absorption spectra of some silicate minerals in the 2-15 micron range

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 22, 1962, 115-116, abstract 22D26 (Tr. Kazakhsk. n.-i. in-ta mineral'n. syr'ya, no. 3, 1960, 308-311; 312-317)

TEXT: (3) A study was made of the conditions under which tablets of the substances to be analyzed could be obtained in a mixture with KBr, and which could be used for recording IR absorption spectra of solid substances. It was noted that the following conditions should be observed in order to obtain high-grade tablets: the KBr and the substance to be analyzed should be dry and crushed to a particle size of $\leq 5~\mu_{\rm i}$ before pressing the tablets, the air should be pumped out for 5-7 min, and Card 1/4

Infra-red spectrometry of ...

S/081/62/000/022/009/088 B177/B186

pressing should be performed at a pressure of 5-6 t/cm2. If particle size greatly exceeds 5 µ, the form of the absorption bands is distorted. However, in the method of pressing the tablets the effect of large particles is less apparent than when depositing the substance on to transparent plates of NaCl or KBr. At low pressures, the tablets obtained are opaque and rapidly crack. If they are pressed without a vacuum under low pressure, the tablets crack when the load is released through the expansion of air contained in the powder. If KBr or the substance to be analyzed are used with an excessive moisture content, opaque tablets are produced. (4) IR absorption spectra in the 2-15 μ range (on a singlebeam spectrometer) were obtained for the following 52 minerals in the form of pressings with KBr: zircon, thorite, olivine, fayalite, topaz, disthen, andradite, vesuvianite, titanite, axinite, calamine, epidote, orthite, beryl, chrysocolla, tourmaline, diopside, hedenbergite, spodumene, anthophyllite, wollastonite, radusite-asbestos, tale, phlogopite, muscovite, sericite, penninite, nepouite, dickite, orthoclase, microcline, and lazurite. A diagram shows the positions of the absorption bands in the IR absorption spectra of the above minerals. No simple regularity or arrangement of the absorption bands were observed in the spectra of

Card 2/4

Infra-red spectrometry of ...

s/081/62/000/022/009/088 B177/B186

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minerals in the same sub-class, nor any substantial differences between the spectra of different sub-classes. Minerals having the same chemical composition, and which do not crystallize in different syngonies, have different spectra. An analytical scheme is proposed for identifying a silicate which is to be determined, from the IR absorption spectra of minerals previously investigated. For this purpose, the schematic spectra of the minerals are arranged, according to a formal feature of the appearance of their spectra, into two groups: those of minerals containing water, and those containing no water. The minerals are arranged within each group in increasing order of the number of absorption bands in their spectrum. If the number of bands is the same, the first spectrum is that of the mineral whose first band has the shortest wavelength. A given mineral is identified by obtaining its IR absorption spectrum (2-15 μ), and by finding the principal absorption bands in it. Should the spectrum contain a large number of bands, it is diagrammatically drawn on tracing paper to the same scale as the diagram of the spectra of the known minerals. The tracing paper is then laid over the diagram of spectra of the known minerals, and by moving it along the diagram, the minerals are found whose absorption bands correspond to the spectrum of the mineral Card 3/4

Infra-red spectrometry of ...

S/081/62/000/022/009/088 B177/B186

under investigation. The proposed system can be employed both to identify unknown specimens of a single mineral and to discover similar IR absorption spectra for minerals in different sub-classes. For Part 2, see RZhKhim, 1960, no. 18, 72262. [Abstracter's note: Complete translation.]

Card 4/4

SHCHERBOV, D.P.; KAGARLITSKAYA, N.V.

Effect of large amounts of some elements on the fluorometric determination of gallium by rhodamine C. Zav.lab, 28 no.1:30-33 '62.

(MIRA 15:2)

1. Kazakhskiy institut mineral'nogo syr'ya.

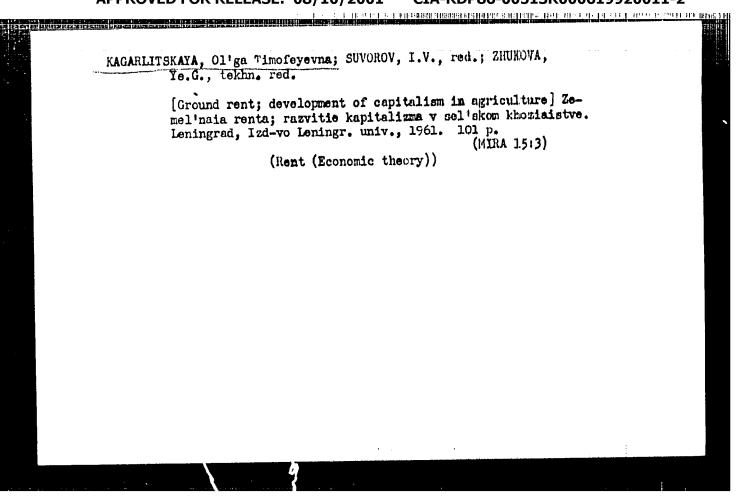
(Gallium-Analysis)

(Fluorometry)

SHCHERBOV, D. P.; IVANKOVA, A. I.; SOLOV'YAN, I. T.; KAGARLITSKAYA,
N. V.

Determination of gallium in ores by rhodamine. Metcd. anal.
khim.reak. i prepar.no. 4175-79 '62. (MIRA 17:5)

1. Kazakhskiy institut mineral'nogo syr'ya (KazIMS).



KAGARLITSKIY, A.D.: SUVOROV, B.V.

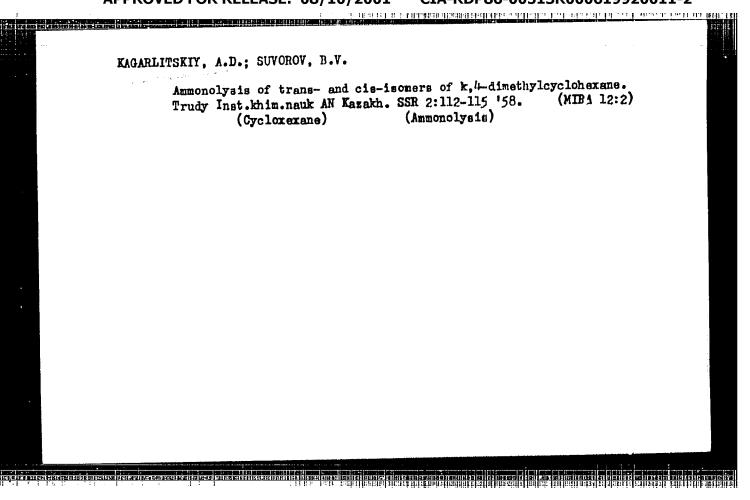
Vapor phase ammonolysis of benzaldehyde and benzoic acid on titanium vanadate. Izv. AN Kazakh. SSR. Ser.khim. no.1:84-90 '56.

(NIRA 12:2)

(Benzaldehyde)

(Benzoic acid)

(Ammonolysis)



RAPIKOV, S.R.; SUVOROV, B.V.; KAGARLITSKIY, A.D. Dehydrogenation of benzylamine on titanium vanadate under conditions of oxidative ammonolysis. Izv.AN Kazakh.SSR.Ser.khim. no.1:77-79 (MIRA 13:6) (Titanium vanadate) (Dehydrogenation) (Benzylamine)

SOV/79-29-1-34/74

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AUTHORS:

Kagarlitskiy, A. D., Suvorov, B. V., Rafikov, S. R.

TITLE:

On the Reaction of Acetophenone With Gaseous Ammonia Over Titanium Vanadate (O reaktsii vzaimodeystviya atsetofenona s

ammiakom v gazovoy faze na vanadate titana)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 1, pp 157-158 (USSR)

ABSTRACT:

On the basis of the synthesis of the trimethyl pyridine from acetone and ammonia according to Chichibabin (Ref 1) it could be expected that in the ammonolysis of acetophenone a 2,4,6-triphenyl pyridine were formed. It was the objective of the present paper to prove that this reaction can really take place. Molten titanium vanadate was chosen as a catalyst which, as previously established (Ref 7), has no bad dehydrating qualities. Already the first ammonolysis experiments of acetophenone have shown that in this case really 2,4,6-triphenyl pyridine results as the main product. This was obtained under optimum conditions at 370-380° in a 35% yield, referred to the transmitted, and in a 98% yield referred to the acetophenone reacted which may easily be seen from the diagram. At 400° and more the yield decreased as crack reactions took place

Card 1/2

sov/79-29-1-34/74

On the Reaction of Acetophenone With Gaseous Ammonia Over Titanium Vanadate

under the formation of low-molecular products. In the experiments performed below 350° the resinous products were separated on the surface of the catalyst, whereby its activity was reduced. It was however possible to restore its activity in the air current at 400°. The catalyst was made by melting titanium dioxide with vanadium pentoxide according to the formula Ti(VO₃)₄. There are 1 figure and 9 references, 5 of

which are Soviet.

ASSOCIATION: Institut khimicheskikh nauk Akademii nauk Kazakhskoy SSR

(Institute of Chemical Sciences of the Academy of Sciences,

Kazakhskaya SSR)

SUBMITTED:

November 22, 1957

Card 2/2

SOV/80-32-2-27/56

TO SEE SECTION OF THE REPORT OF THE PROPERTY O

AUTHORS:

Kagarlitskiy, A.D., Suvorov, B.V., Rafikov, S.R.

TITLE:

Ammonolysis of Benzaldehyde on Mixed Oxide Catalysts

(Ammonoliz benzal'degida na smeshannykh okisnykh katalizatorakh)

PERIODICAL:

Zhurnal prikladnov kmimii, 1959, Vol XXXII, Nr 2,

pp 388-391 (USSR)

ABSTRACT:

During the interaction of benzaldehyde with ammonia in the presence of titanium vanadate and tim vanadate benzonitrile is formed with an output of 87 - 88%. Lophine is produced in small amounts by a side reaction. Another side reaction is

the hydration of benzaldehyde to toluene.

There is 1 graph and 11 references, 2 of which are Scviet,

6 American, 2 English, and 1 German.

ASSOCIATION:

Institut khinicheskikh nauk Akademii nauk KazSSR (Institute of

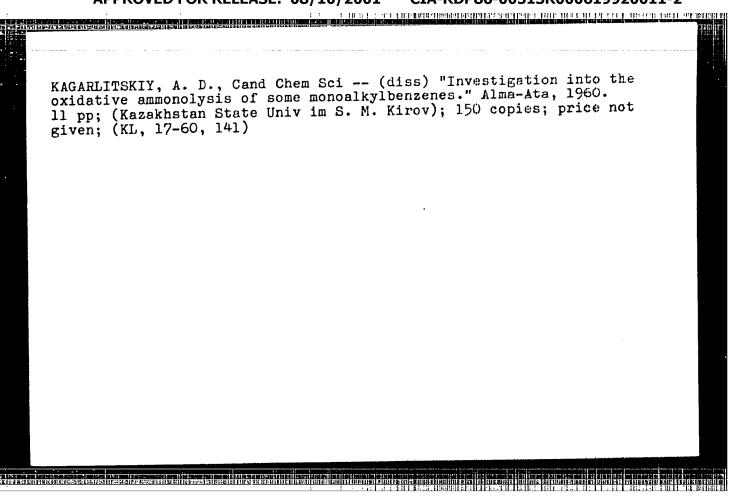
Chemical Sciences of the Academy of Sciences of the Kazakh SSR)

SUBMITTED:

June 12, 1957

Card 1/1

CIA-RDP86-00513R000619920011-2" APPROVED FOR RELEASE: 08/10/2001



S/850/62/008/000/003/004 B119/B101

AUTHORS: Suvorov, B. V., Rafikov, S.R., Kagarlitskiy, A. D.,

Sabirova, A. A., Svetasheva, V. A.

TITLE: Oxidation of organic compounds. Communication XXXIII.

Oxidizing ammonolysis of p- and m-xylene mixtures

SOURCE: Akademiya nauk Kazakhskoy SSR. Institut khimicheskikh

nauk. Trudy. v. 8. Alma-Ata, 1962. Kataliticheskiy

sintez monomerov. 109-114

TEXT: The synthesis of terepththalic dinitrile (I) and isophthalic dinitrile (II) was investigated by reaction of mixtures of p- and m-xylene of various molar ratios in amounts of 40-70 g with 120-175 g of NH₃, 350-500 g of H₂O, and 2400-4800 liters of air per hour and per liter of catalyst, with contact times of 0.2 - 0.5 sec, at 350-410°C. Molten lead vanadate served as catalyst. The contents of I and II in the reaction product were determined by polarography. Results: The yields of I and II were only slightly affected by a change in the contact time and in the rate of adding the reaction mixture. Then the reaction

Card 1/2

Oxidation of organic compounds...

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temperature is raised the yield of I + II reaches a maximum between 360 and 390°C, while the yield of gaseous substances increases steadily. The formation of I and II depends essentially on the motar ratio of the xylene isomers used: under otherwise equal reaction conditions, the yields of I were ~ 39 , ~ 3 , and $\sim 52\%$, whilst those of II were ~ 35 , and over 80% respectively, at the ratios m-xylene p-xylene are 5 figures.

Card 2/2

Cridation of organic compounds. Report Nc.25: Oxidative ammonolysis of some monoalkylbenzenes. Tr dy Inst.khim.nauk
All Kazakh.SSR 7:57-67 '61. (MIRA 15:8)

(Benzene) (Ammonolysis)

SUVOROV, B.V.; RAFIKOV, S.R.; KAGARLITSKIY, A.D.; SANTROVA, A.A.;

SVETASHEVA, V.A.

Oxidation or organic compounds. Report No. 33: Oxidative
anmonolysis of a mixture of p- and m-xylen:s. Trudy Inst.khim.
nauk AN Kazakh.SSR 8:109-114. 62. (MTRA 15:12)

(Xylene) (Ammonolysis) (Oxidation)

SUVOROV, B.V.; RAFIKOV, S.R.; ZHUBANOV, B.A.; KOSTROMIN, A.S.; KUDINOVA, V.S.;
KAGARLITSKIY, A.D.; KHMURA, M.I.

Catalytic synthesis of the dinitrile of terephthalic acid.
Zhur. prikl. khim. 36 no.8:1837-1847 Ag '63. (MIRA 16:11)

KAGARLITSKIY, A.D.; SUVOROV, B.V.; RAFIKOV, S.R.; KOSTROMIN, A.S.

Catalytic synthesis of benzonitrile by means of the oxidative ammonolysis of aromatic compounds. Zhur. prikl. khim. 36 no.8:1848-1852 Ag *63. (MIRA 16:11)

POLIMBETOVA, F.A.: SUVOROV, B.V.; RAFIKOV, S.R.: KAGARLITSKIY, A.D.; BOGDANOVA, Ye.D.

Some results of research on the synthesis and tests of the growth promoting substance "nikazin". Vest. AN Kazakh. SSR. 20 no.7:3-10 Jl '64. (MIRA 17:11)

SUVOROV, B.V.; RAFIKOV, S.R.; KAGARLITSKIY A.D.

Oxidative ammonolysis of organic compounds. Usp. khim. 34 no.9:1526-1549 S 165. (MIRA 18:10)

1. Institut khimicheskikh nauk AN KazSSR.

A REPORT OF A REPORT OF THE PROPERTY OF THE PR

VATKIN, Ya. L., kand. tekhn. nauk; BERDYANSKIY, M. G., inzh.; BRODSKIY, I. I., inzh.; DRUYAN, V. M., inzh.; KOLFOVSKIY, N. M., inzh.; KAGARLITSKIY, A. S., inzh.; LUDENSKIY, A. M., inzh.

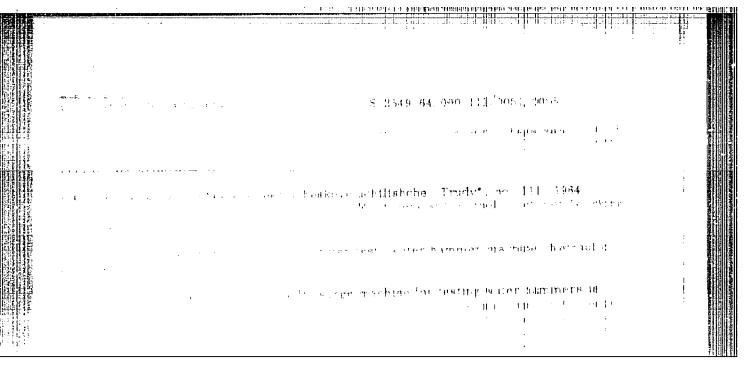
Fixed mandrels on automatic mills. Nauch. trudy. IMI no.48: 174-185 '62. (MIRA 15:10)

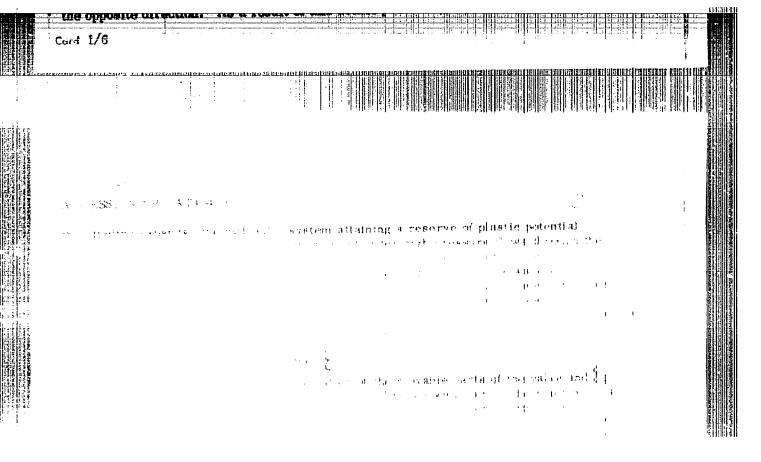
(Pipe mills)

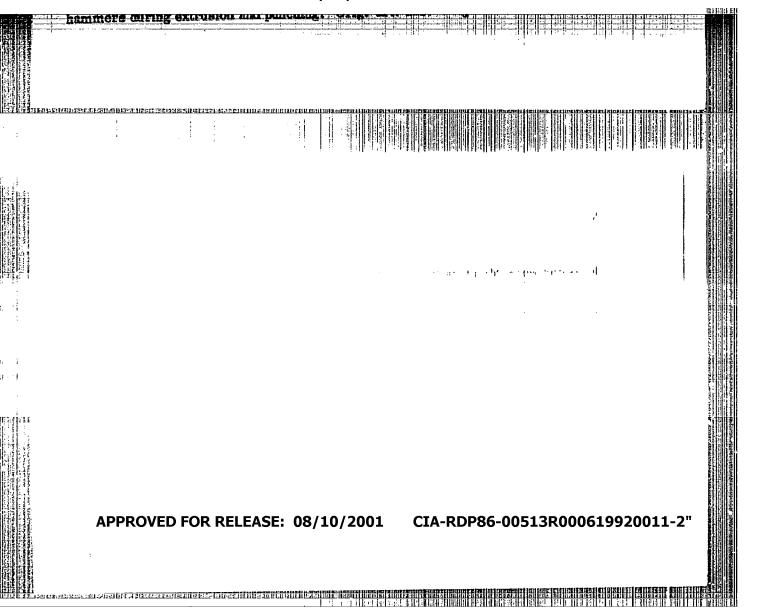
PLYATSKOVSKIY, O.A., kand. tekhn. nauk; KAGA.LITSKIY, A.S., inzh.

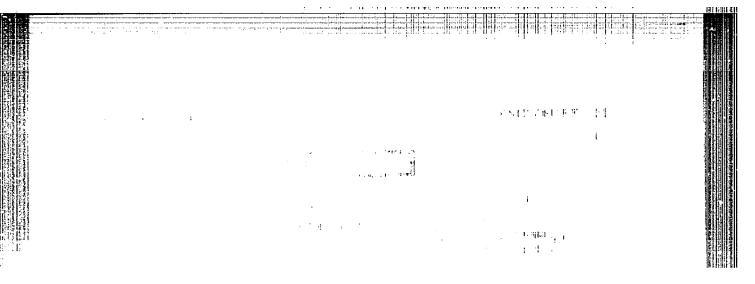
Nature of the development of slipping in a tangential direction on transverse and helical rolling mills. Proizv. trub no.10:14-19 163.

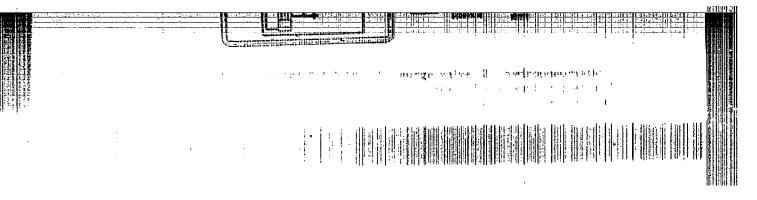
(EIRA 17:10)

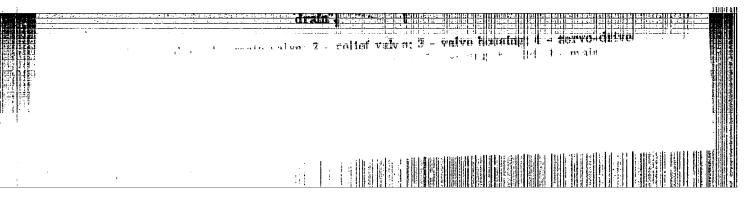












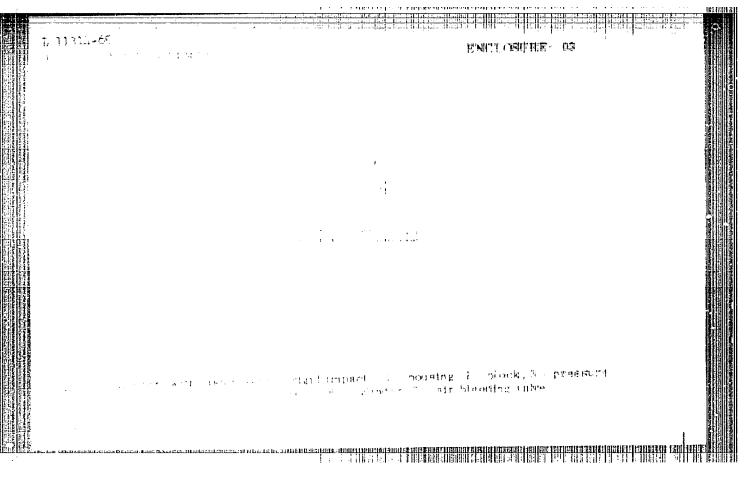
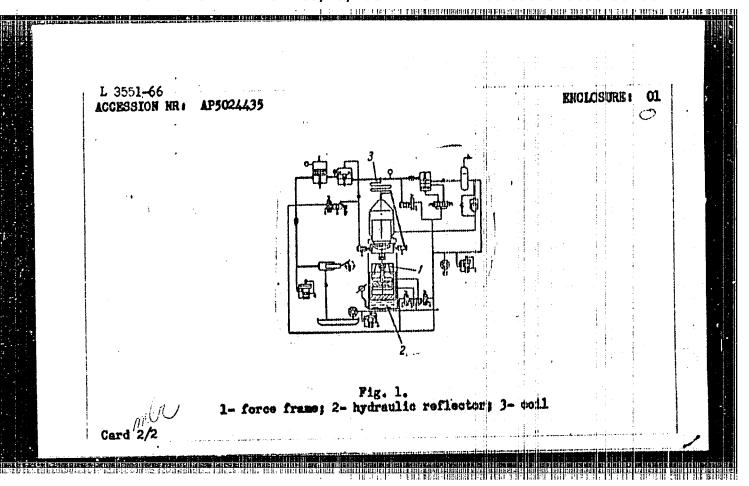


FIGURE 1 CHRESSON STREAMING THE PROPERTY OF TH

EWT(d)/EWT(m)/EWP(v)/EWP(t)/EWP(k)/EWP(h)/EWP(b)/EWP(1)/EWA(d)UR/1286/65/000/015/0146/0146 ACCESSION NR: AP5024435 AUTHORS: Zimin, A. I.; Kagarmanov, A. F. 55 TITLE: Pulsed hydraulic press-hammer. Class 58, No. 173608 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 146 TOPIC TAGS: hydraulic equipment, metal press 1 ABSTRACT: This Author Certificate presents a pulsed hydraulin press-hanser provided with a pulsed valve and a pipe with a diameter equal to the inside diameter of the cylinder. To increase the effectiveness of operation and to decrease the size, the pedestal of the press-hammer is in the form of a closed force frame with a hydraulic reflector, and the operating pipe is in the form of a coil (see Fig. 1 on the Enclosure). Orig. art. has: 1 diagram. ASSOCIATION: none SUB CODE: IB ENCL: 01 SUBMITTED: 03Dec63 OTHER: 000 NO REF SOV: 000

Card 1/2



; FIRE-1927 - FERRENG THERRITERN FURTISHED BEING 1931 - 40 % 24 FT 24 CT 1 18 75 TH 58 TH 10 FROM 1 195 FERRENGE BEING 1 195 FERRENGE B SOURCE CODE: UR/0413/66/000/014/0142/0142 ACC NRI AP6029079 INVENTORS: Zimin, A. I.; Kagarmanov, A. F.; Sverchkov, Yu. 3. ORG: none TITLE: A hydraulic impulse forge press. Class 58, No. 184131 SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 142 TOPIC TAGS: hydraulic equipment, forge press, valve ABSTRACT: This Author Certificate presents a hydraulic impulse forge press with its power system provided with a hydroaccumulator. The latter propels the working liquid through an impulse valve onto the plunger. To produce the opposite movement of another working plunger, the hydroaccumulator is connected to another closed hydraulic power system with an impulse valve (see Fig. 1). The sizes of both hydraulic power systems are selected to satisfy the condition that the opposite 621.226:621.974.4 Cord 1/2

CIA-RDP86-00513R000619920011-2"

APPROVED FOR RELEASE: 08/10/2001

KAGRAMANOVA, A.K.

Closed reposition of the vertebrae in complicated spinal fractures. Khirurgiia 40 no.5:10-15 My 164. (MIRA 18:2)

1. Travmatologicheskaya klinika (zav.- prof. T.I. Sokolov, glavnyy khirurg - chlen-korrespondent AMN SSSR prof. B.A. Petrov) Moskovskogo gorodskogo nauchno-issledovatel'skogo instituta skoroy pomoshchi imeni Sklifosovskogo (dir. M.M. Tarasov).

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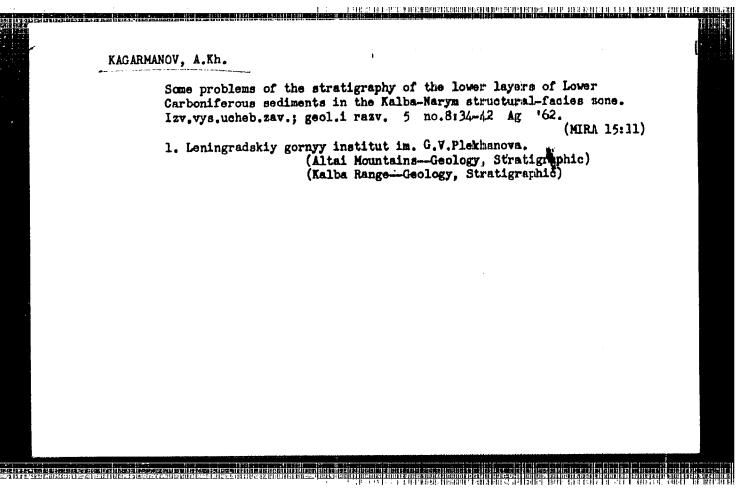
ILLAPIONOV, Aleksey Alekseyevich; KAIGAHOV, M.I., otv. red.; NIKOLAYEVA, I.N., red.

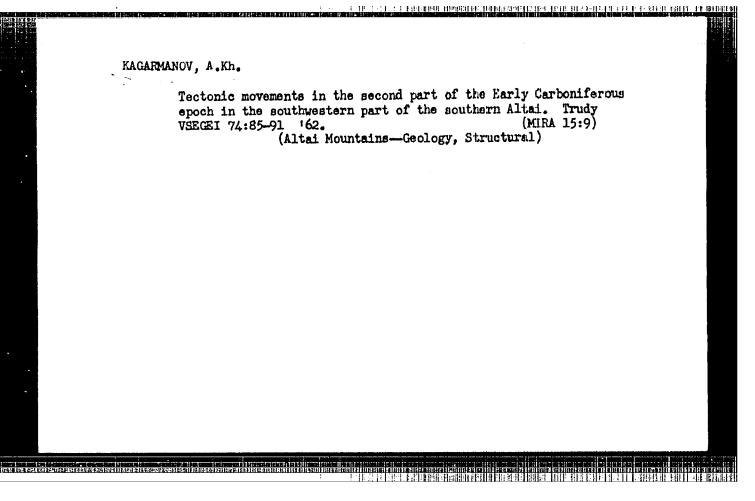
[Petrography and mineralogy of ferruginous quartzites in the Mikhaylovskoye deposit of the Kursk Magnetic Anomaly] Petrografiia i mineralogiia zhelezistykh kvartsitov Mikhailovskogo mestorozhdeniia Kurskoi magnitnoi anomalii. Moskva, Nauka, 1965. 162 p. (NIHA 18:6)

KAGARMANOV, A. Kh.; MOISEYEVA, E.G.

Faunal finds in the fossil-free lower Carboniferous terrigenous strata of the Kalba Range and the western part of the scuthern Altai. Dokl. AN SSSR 139 no.5:1187-1189 Ag. 161. (MIRA 14:8)

1. Leningradskaya kameral'naya gruppa Altayskoy geologos"yemochnov ekspeditsii. Predstavleno akademikum D.V. Nalivkinym. (Altai Mountains—Paleontology, Stratigraphic)





INTROVSKAYA, T.A.; SCENATOV, G.1.; KAGARNANOV, A.Kh.; YANGBOVICH, V.S.

Metallogeny of the Kalba range. Sov. geol. 7 no.10:79-87 0 '64.

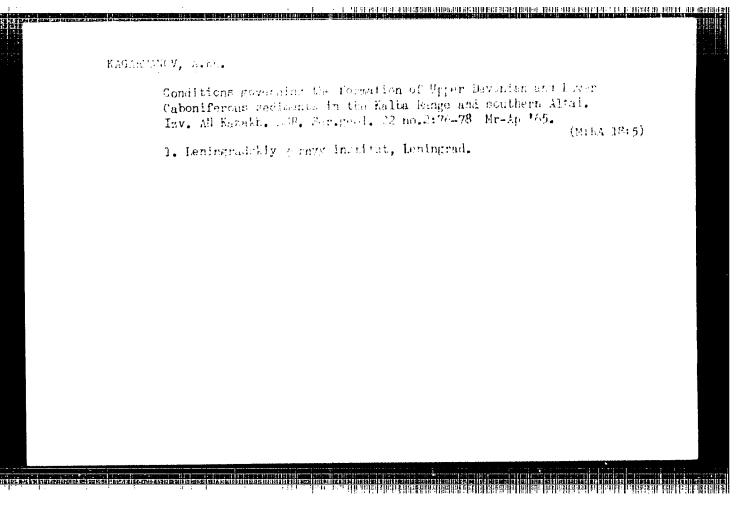
(MEA 17:11)

1. Vnesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut

i Leningradskiy gornyy institut.

KAGARMANOV, A.Kh.; TARASENKOV, A.M.

Stratigraphic position of volcanic formations in the Paleozo2c cross section of the Kalba Range. Zap. LGI 47 no.2:25-34 '64. (MIRA 18:3)



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Mezhvuzovskoye soveshchaniye po voprosam novoy tekhniki v neftyanoy promyshlennosti. Moscow, 1956

Razvedka i razrabotka neftyanykh i gazovykh mestorozhdeniy; materialy soveshchaniya, tom. l (Prospecting and Development of Oil and Gas Deposits; Papers of the Inter- Two ence on New Techniques in the Petroleum Industry, Vol 1) Moscow, Gostoptekhizdat, 1958. 311 p. Errata slip inserted. 1,500 copies printed.

Eds.: I. M. Murav'yev, Professor, Doctor of Technical Sciences, and V. N. Dakhnov, Professor, Doctor of Geological and Mineralogical Sciences; Editorial Board: K. F. Zhigach, Professor (Resp. Ed.), I. M. Murav'yev, Professor, A. A. Tikhomirov, Candidate of Economical Sciences, V. I. Yegorov, Candidate of Economical Sciences, M. M. Charygin, Professor, F. F. Dunayev, Professor, N. I. Chernozhukov, Frofessor, Ye. M. Kuzmak, Professor, I. A. Charnyy, Professor, G. M. Panchenkov, Professor, V. N. Dakhnov, Professor, Doctor of Geological and Mineralogical Sciences, N. S. Nametkin, Doctor Card 1/16

Prospecting and Development (Cont.)

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working of oil and gas deposits, and the use of new devices employed in oil and gas exploitation. There are 52 references: 44 Soviet, and 8 English.

TABLE OF CONTENTS:

Yevseyenko, M. A. [USSR Minister of the Petroleum Industry] Tasks Facing Oil Industry Workers in the Sixth Five Year Plan The author reviews progress made in the petroleum industry, emphasizing the importance of the developments which were reported at the conference of representatives of the Moscow Petroleum Institute. The goals set for 1960, the last year of the Sixth Five-Year Plan, are indicated.

Association] The Efficiency of Kuvykin, S. I. [Chief, Bashneft the Exploration of the Bashkir Oil Deposits is Raised By Speed 27 Drilling of Small Diameter Boreholes The author refers to large scale structural exploration drilling introduced in Western Bashkiriya in 1948 to discover new petroliferous areas and study deeper horizons.

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Prospecting and Development (Cont.)

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Vykhodtsev, S. V. [Moscow Petroleum Institute]. Methods of 37 Appraising Labor Productivity in Oil Well Drilling The author discusses the two basic methods for estimating labor productivity: 1) according to natural output, and 2) according to production costs. He rejects the latter method as unsuited for drilling, since drilling involves indefinite periods of time. He reviews other methods for estimating labor productivity, for which he considers two conditions essential: 1) proper understanding of the produced item, and 2) understanding of labor expenditure in standard units of time. The basic elements in well drilling are production casing, erection of derricks, and installation of drilling equipment. These operations can, in his opinion, be easily estimated according to a) footage drilled, b) the erection and hauling of derricks, c) the erection and dismantling of rigs. He produces a table listing the output of a derrick-erecting crew at the Tuymazyburneft' (Tuymazy Oil Drilling) Trust, and states that the assembling of drilling equipment can be estimated in a similar manner. Finally he cites the records attained by drilling enterprises during the Fourth and Fifth Five-Year Plan periods and notes that labor productivity of drill-Card 4/16

Prospecting and Development (Cont.)

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serially-produced bits vary considerably even in horizons of the same type and disagrees with the prevailing opinion that they depend upon the nature of the rocks. He notes the 1955 analysis conducted by UfNII at the Tuymazy Oil Drilling Trust on the per bit footage of 15,000 standard bits. Tables gave data for each horizon and indicated the output of pumps and loading of bits. The result of the tests suggested the use of the following indicators for determining the time when the bit was raised from the bottom-hole in every horizon: 1) penetration per bit; 2) time of the efficient use of a bit at the bottom-hole; 3) final mechanical drilling speed per bit tip. The author cites foreign data (C. E. Williams and G. H. Burns) indicating that the flushing operation may be reduced by other means, such as by rotating the drill pipe during flushing. He considers the power and momentum of the turbodrill particularly important since smooth delivery depends upon 1t.

Zhigach, K. F., L. K. Mukhin, V. N. Demishev, and N. N. Goncharov [Moscow Petroleum Institute]. Petroleum-Base Drilling Fluids 92 Card 6/16

KUVYKIN, 3.1.; KAGARMANOV, N.F.

Results of testing diamond bits in drilling small-diameter
Wells in Enskkiria. Neft. khoz. 36 no.4:31-37 Ap '60.
(MIRA 14:8)

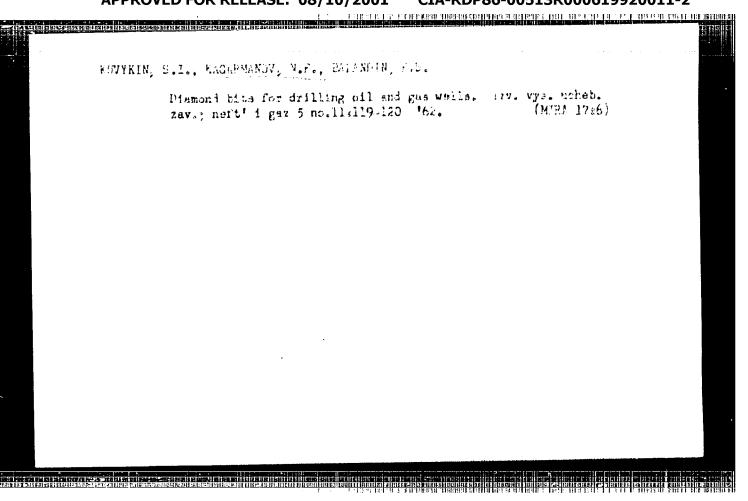
(Bashkiria—Rock drills—Testing)

KUVYKIN, Stepan Ivanovich; KAGARMANOV, Nurulla Faritovich;
SULTANOVA, R.T., red.; KAKHMATULLINA, R.Kh., tekhn. red.

[Diamond drilling of oil wells] Almaznoe burenie naftianykh
skvazhin. Ufa, Bashkirskoe knishnoe iad-vo, 1962, 103 p.

(Oil well drilling)

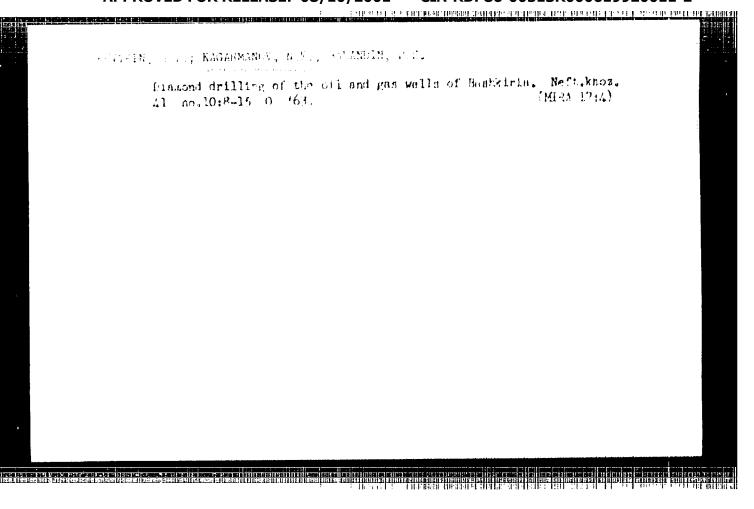
(Oil well drilling)



BALANDIN, P.S.; CORLOV, I.A.; KACARMANOV, N.F.; POBEDONOSTSRV, V.S.;
TUYEV, D.D.; KHAMZIN, Sh.Kh.

Core recovering from the producing layer DE in the Tuymazy
field. Neft. khoz. 40 no.5:59-62 My '62. (HIRA 15:9)

(Tuymazy region—Core drilling)



KAGARMANOV, N.F.; BALANDIN, P.S., RADSKAZOVA, S.F.

Investigating the physicomechanical properties of Yakus diamonds

in connection with their use in the reinforcement of drilling bits.

Mash. 1 neft. obor. no.2:11-15 165.

(MIRA 18:5)

1. Ufimskiy neftyanov nauchno-issledovatel skiy institut.

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KUVYKIN, S.I.; KAGARMANOV, N.F.

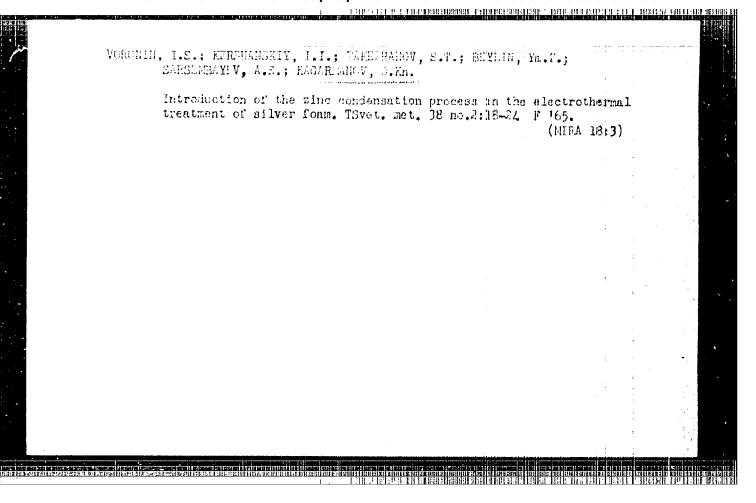
Mechanism of the disintegration of rocks and planning the conditions for diamond drilling. Neft. khoz. 43 no.1:12-18 Ja 65.

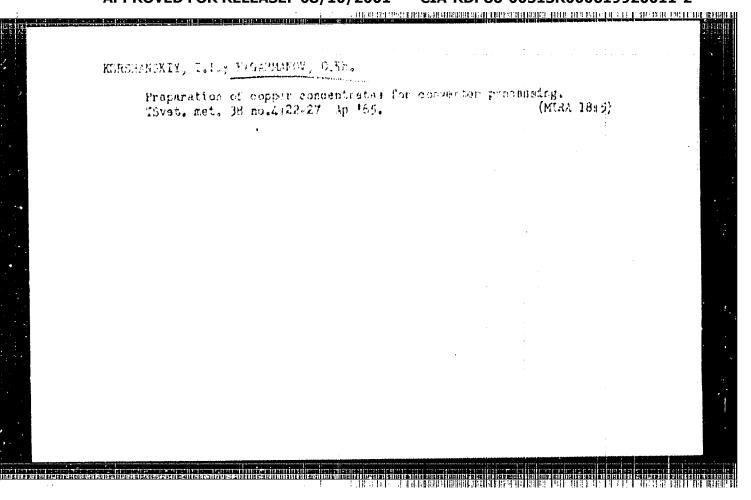
(MIRA 18:3)

BALANDIN, F.S.; BIISHEV, A.G.; KAGARMANOV, N.F.; POBEEDNOSTSEV, V.S.;
KHAMZIN, Sh.Kh.

Core recovery from producing horizons using DKNU "Ufimets" core
assemblies. Burenie no.1:20-24, '64.

1. Ufimskiy neftyanoy nauchno-issledovatel'skly institut.





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9/137/62/000/001/216/237 A154/A101

AUTHORS:

Stanevich, V. V., Kagarmanova, V. M.

TITLES

Assaying-spectral determination of bismuth in the raw material and

semiproducts of lead production

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 1, 1962, 1 - 2, abstract 1K5 ("Metallurg, 1 khim, prom-st' Kazakhstana, Nauchno-tekhn, sb.", 1961,

no. 1 (11), 48 - 49).

An assaying-spectral method was developed for determining Bi in Pb concentrates, agglomerate, dust, smelting-furnace slags in Pb-Zn production, TEXT: dross, dry alkaline melts and reverberatory-furnace slags. The method is based on the ability of Pb to collect noble metals and Bi. Crude lead, obtained by assaying melting of samples without litharge and with the corresponding charge, was subjected to spectral analysis. The melting was carried out at 900 - 1,000°C for 25 - 30 min. The crude lead was east in the form of electrodes. An MCH -22 (ISF-22) spectrograph and a NC -39 (PS-39) are generator or a MT-1 (D0-1) with an interrupter were used. The analysis was carried out by the three-standards method. The analytical pairs of lines were: Bi - 3,067.7 and Pb - 3,118.9 for

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